SRR0618 Series - Shielded Power Inductors

Features
- Available in E6 series
- Low unit height of 1.8 mm
- High current
- RoHS compliant*

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance 100kHz (μH)</th>
<th>Q Ref.</th>
<th>Test Frequency (kHz)</th>
<th>SRF Nom. (MHz)</th>
<th>RDC Max. (Ω)</th>
<th>I rms Typ. (A)</th>
<th>I sat Typ. (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRR0618-2R2ML</td>
<td>2.2 ± 20</td>
<td>30</td>
<td>100</td>
<td>95</td>
<td>0.05</td>
<td>1.70</td>
<td>2.10</td>
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<tr>
<td>SRR0618-3R3ML</td>
<td>3.3 ± 20</td>
<td>30</td>
<td>100</td>
<td>70</td>
<td>0.07</td>
<td>1.40</td>
<td>1.75</td>
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<tr>
<td>SRR0618-4R7ML</td>
<td>4.7 ± 20</td>
<td>30</td>
<td>100</td>
<td>65</td>
<td>0.10</td>
<td>1.05</td>
<td>1.45</td>
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<tr>
<td>SRR0618-6R8ML</td>
<td>6.8 ± 20</td>
<td>30</td>
<td>100</td>
<td>50</td>
<td>0.15</td>
<td>0.95</td>
<td>1.18</td>
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<tr>
<td>SRR0618-100ML</td>
<td>10.0 ± 20</td>
<td>30</td>
<td>100</td>
<td>45</td>
<td>0.22</td>
<td>0.82</td>
<td>0.98</td>
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<td>SRR0618-150ML</td>
<td>15.0 ± 20</td>
<td>30</td>
<td>100</td>
<td>35</td>
<td>0.31</td>
<td>0.60</td>
<td>0.76</td>
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<tr>
<td>SRR0618-220ML</td>
<td>22.0 ± 20</td>
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<td>100</td>
<td>25</td>
<td>0.46</td>
<td>0.47</td>
<td>0.60</td>
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<tr>
<td>SRR0618-330ML</td>
<td>33.0 ± 20</td>
<td>30</td>
<td>100</td>
<td>22</td>
<td>0.68</td>
<td>0.43</td>
<td>0.53</td>
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<tr>
<td>SRR0618-470ML</td>
<td>47.0 ± 20</td>
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<td>100</td>
<td>20</td>
<td>1.10</td>
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<td>0.44</td>
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<td>SRR0618-680ML</td>
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<td>100</td>
<td>15</td>
<td>1.50</td>
<td>0.30</td>
<td>0.37</td>
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<tr>
<td>SRR0618-101ML</td>
<td>100.0 ± 20</td>
<td>30</td>
<td>100</td>
<td>13</td>
<td>2.30</td>
<td>0.23</td>
<td>0.27</td>
</tr>
</tbody>
</table>

Recommended Layout

General Specifications
- Test Voltage: 0.1 Volt
- Reflow Soldering: 230 °C, 50 sec max.
- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature: -40 °C to +125 °C

Materials
- Core Material: Ferrite DR
- Wire: Enamelled Copper
- Base: Ferrite Co-re
- Terminal: Cu/Ni/Sn

Rated Current: Ind. drop 50 % typ at I sat

Temperature Rise: ≤40 °C max at rated I rms

Packaging: 900 pcs. per reel

Electrical Schematic

Dimensions: MM (INCHES)

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

OBSOLETE
Applications

- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

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Packaging Specifications

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